Notice of Allowability	Application No.	Applicant(s)
	09/980,250	KOOPS ET AL.
	Examiner	Art Unit
	Anthony Quash	2881
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALL'OWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. All bis communication is responsive to an amendment filed on 8/26/04. 2. The allowed claim(s) is/are 24-46. 3. The drawings filed on 24 May 2002 are accepted by the Examiner. 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All bisome* circles Allowand Allow		
1. Certified copies of the priority documents have been received.		
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
ldentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summary Paper No./Mail Da 08), 7. Examiner's Amend	te

÷

DETAILED ACTION

Applicant's amendments/arguments, filed 6/29/04 and 8/26/04, have overcome the 112 rejection's listed in the last office action, dated 3/2/04.

Allowable Subject Matter

Claims 24-46 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance: With respect to independent claim 24, the prior art of record does not disclose nor suggest in combination with the remaining aspects of the claim, a miniaturized terahertz radiation source based on the Smith-Purcell effect, wherein the field emitter, the electrostatic lens, the beam deflector, the grating of metal and the anode are integrated on a semiconductor chip using one of additive and nanolithographic methods, and wherein from a focused electron source, a high-energy bundle of electrons is transmitted at a defined distance over a reflection diffraction grating having transversely disposed grating rods so that in response to an image charge oscillating within a profile of the reflection diffraction grating an electromagnetic wave of a wavelength is emitted and is adjustable as a function of a periodicity of lines and of electron velocity. Since this aspect is not disclosed nor taught in the prior art of record independent claim 24, and dependent claims 25-46 which also incorporate this aspect are deemed allowable over the prior art of record.

Applicant's arguments, see amendments/arguments, filed 6/29/04 and 8/26/04, with respect to 24-46 have been fully considered and are persuasive.

Application/Control Number: 09/980,250

Art Unit: 2881

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Quash whose telephone number is (571)-272-2480. The examiner can normally be reached on Monday thru Friday 9 a.m. to 5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Lee can be reached on (571)-272-2477. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A. Quash

Nikita Wells
PRIMARY EXAMINER
02/01/05

Page 3